

Work Order ID 73405

Wednesday, August 31, 2011 3:05:58 PM



Page 1

Item ID: D3500-1

Accept



Setup Start



Revision ID:

Item Name: Saddle

Stop



Start Date: 8/31/2011 Start Qty: 20.00



Cust Item ID:

Required Date: 9/9/2011 Req'd Qty: 20.00



Customer:

Reference:

Approvals: Process Plan: CL Date: 11/08/31

Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

100



HAAS 1

HAAS CNC vertical machine #1

HAAS CNC VERTICAL MACHINING #1

0.00

0.00

Memo

Program Batch No. 73405 Double check by: CL ☐ 1-Machine Step No 1
per Folio FA641 and inspect per attached Dimension Sheets ☐ 2-Machine Step
No 2 per Folio FA641 and inspect per attached Dimension Sheets ☐ 3-Machine
Step No 3 per Folio FA641 and inspect p

12/03/20

20

110



QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

Memo

12/03/20

20

120



QC

Quality Control

QC8- Inspect parts - second check

0.00

0.00

Memo

12/3/22

20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73405

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Item ID: D3500-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Saddle

Start Date: 8/31/2011 Start Qty: 20.00



Cust Item ID:

Required Date: 9/9/2011 Req'd Qty: 20.00



Customer:

Reference:

Run Start



Approvals: Process Plan: Date: Tooling: Date:

Stop



QC: Date: SPC (Y/N): Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

20 BL 12-3-26

140

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME: 1h10

1h40 FINISH TIME:

OVEN TEMPERATURE:

320°F

M120222

20 Q (20) 12/03/26

150

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

20 BL 12-3-26

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73405

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Page 3



Item ID: D3500-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Saddle

Start Date: 8/31/2011 Start Qty: 20.00



Cust Item ID:

Required Date: 9/9/2011 Req'd Qty: 20.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 Packaging Packaging	Identify as per dwg & Stock Location <u>424</u> Memo	0.00 0.00						<u>613626</u>	<u>(20)</u>
170 QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00						<u>MLJ 12/03/27</u>	<u>MLJ 12/03/27</u> <u>(20)</u>

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
 Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

H:\FORMS\Quality Assurance\approved QANCRWO RevE

Picklist Print

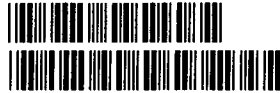
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Page 1

Work Order ID: 73405

Parent Item: D3500-1

Parent Item Name: Saddle




Start Date: 8/31/2011

Required Date: 9/9/2011

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP Rev:A New Issue 06-06-15 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6102-013  Saddle Billet		Manufactured	No			100	Each	36.0000	1	20		12/03/20	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT043	36	
59467	3	
60713	8	
61300	1	
70674	24	

→ 80931

20.0

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order:	73405
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500	Rev: C	Page 1 of 1	

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	By	Date
A	0.483	0.490		0.486	0.486	0.486	0.486		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		0.375	0.375	0.375	0.375		
F	0.490	0.510		0.500	0.500	0.500	0.500		
H									
(Note: Dimension I is 0.015" over flange)									
I	R1.575	R1.595		1.587	1.595	1.595	1.587		
J	0.240	0.260		0.250	0.240	0.242	0.247		
K	0.490	0.510		0.500	0.500	0.500	0.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		0.316	0.316	0.316	0.316		
N	0.256	0.262		0.258	0.258	0.258	0.258		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		0.550	0.550	0.550	0.550		
V	0.793	0.803		0.798	0.798	0.798	0.798		
W	R.240	R.260		0.250	0.250	0.250	0.250		
X	0.040	0.060		0.050	0.050	0.050	0.050		
Y	0.100	0.120		0.105	0.105	0.105	0.105		
AA	R1.125	R1.145		1.133	1.141	1.140	1.135		
AB	R.490	R.510		0.500	0.500	0.500	0.500		
AC	0.615	0.635		0.630	0.630	0.630	0.630		
AD	0.240	0.260		0.255	0.247	0.250	0.251		
AE	1.810	1.830		1.825	1.823	1.824	1.823		
AF	0.240	0.260		0.251	0.251	0.250	0.251		
AG	0.140	0.160		0.150	0.148	0.150	0.150		
AH	0.140	0.160		0.156	0.156	0.156	0.153		
AI	0.140	0.160		0.157	0.157	0.158	0.153		
Accept/Reject									

Measured by:	M. R.
Date:	12/03/20

Audited by:	S. A.
Date:	12/3/22

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	AA

DART AEROSPACE LTD		Work Order:	93405
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500		Rev: C	Page 1 of 1

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	15	16	17	18	By	Date
A	0.483	0.490		.487	.487	.487	.487		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		.375	.375	.375	.375		
F	0.490	0.510		.500	.500	.500	.500		
H									
(Note: Dimension I is 0.015" over flange)									
I	R1.575	R1.595		1.586	1.585	1.587	1.591		
J	0.240	0.260		.246	.246	.245	.243		
K	0.490	0.510		.500	.500	.500	.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		.317	.317	.317	.317		
N	0.256	0.262		.260	.260	.260	.260		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		.547	.548	.548	.549		
V	0.793	0.803		.798	.798	.798	.798		
W	R.240	R.260		.250	.250	.250	.250		
X	0.040	0.060		.050	.050	.051	.050		
Y	0.100	0.120		.110	.110	.110	.108		
AA	R1.125	R1.145		1.131	1.130	1.131	1.136		
AB	R.490	R.510		.500	.500	.500	.500		
AC	0.615	0.635		.630	.630	.630	.630		
AD	0.240	0.260		.257	.253	.253	.257		
AE	1.810	1.830		1.819	1.819	1.819	1.821		
AF	0.240	0.260		.248	.248	.249	.257		
AG	0.140	0.160		.150	.150	.149	.152		
AH	0.140	0.160		.154	.154	.154	.152		
AI	0.140	0.160		.155	.158	.156	.155		
Accept/Reject									

Measured by:	amf
Date:	12/03/22

Audited by:	SA
Date:	12/3/22

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	AA

DART AEROSPACE LTD		Work Order:	73405
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500	Rev: C	Page 1 of 1	

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	#9	#10	#11	#12	By	Date
A	0.483	0.490		.487	.487	.487	.487		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		.375	.375	.375	.375		
F	0.490	0.510		.500	.500	.500	.500		
H									
(Note: Dimension I is 0.015" over flange)									
I	R1.575	R1.595		1.591	1.589	1.589	1.589		
J	0.240	0.260		.243	.242	.244	.244		
K	0.490	0.510		.500	.500	.500	.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		.317	.317	.317	.317		
N	0.256	0.262		.260	.260	.260	.260		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		.547	.547	.549	.550		
V	0.793	0.803		.798	.798	.798	.798		
W	R.240	R.260		.250	.250	.250	.250		
X	0.040	0.060		.050	.050	.050	.050		
Y	0.100	0.120		.110	.110	.110	.110		
AA	R1.125	R1.145		1.136	1.133	1.134	1.134		
AB	R.490	R.510		.500	.500	.500	.500		
AC	0.615	0.635		.630	.630	.630	.630		
AD	0.240	0.260		.251	.252	.252	.252		
AE	1.810	1.830		1.821	1.820	1.821	1.821		
AF	0.240	0.260		.251	.250	.251	.251		
AG	0.140	0.160		.151	.150	.152	.151		
AH	0.140	0.160		.155	.153	.151	.155		
AI	0.140	0.160		.155	.155	.154	.156		
Accept/Reject									

Measured by:	CML
Date:	12/03/22

Audited by:	SA
Date:	12/3/22

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	AA

DART AEROSPACE LTD		Work Order:	73905
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500	Rev: C	Page 1 of 1	

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	13	14	15	16	By	Date
A	0.483	0.490		.487	.487	.487	.487		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		.375	.375	.375	.375		
F	0.490	0.510		.500	.500	.500	.500		
H									
(Note: Dimension I is 0.015" over flange)									
I	R1.575	R1.595		1.588	1.589	1.588	1.589		
J	0.240	0.260		.244	.244	.244	.244		
K	0.490	0.510		.500	.500	.500	.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		.317	.317	.317	.317		
N	0.256	0.262		.260	.260	.260	.260		
O	6.500	6.520		6.570	6.570	6.570	6.570		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		.550	.550	.550	.550		
V	0.793	0.803		.798	.798	.798	.798		
W	R.240	R.260		.250	.250	.250	.250		
X	0.040	0.060		.050	.050	.050	.050		
Y	0.100	0.120		.108	.108	.106	.107		
AA	R1.125	R1.145		1.132	1.132	1.133	1.133		
AB	R.490	R.510		.500	.500	.500	.500		
AC	0.615	0.635		.635	.635	.635	.635		
AD	0.240	0.260		.252	.253	.253	.252		
AE	1.810	1.830		1.819	1.820	1.820	1.820		
AF	0.240	0.260		.250	.251	.250	.251		
AG	0.140	0.160		.149	.150	.149	.150		
AH	0.140	0.160		.154	.154	.154	.154		
AI	0.140	0.160		.156	.157	.156	.156		
Accept/Reject									

Measured by:	MR
Date:	12/03/22

Audited by:	SA
Date:	12/3/22

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	AA

DART AEROSPACE LTD		Work Order:	73905
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500		Rev: C	Page 1 of 1

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	17	218	219	420	By	Date
A	0.483	0.490		.487	.487	.487	.487		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		.375	.375	.375	.375		
F	0.490	0.510		.500	.500	.500	.500		
H									
(Note: Dimension I is 0.015" over flange)									
I	R1.575	R1.595		1.588	1.588	1.588	1.589		
J	0.240	0.260		.244	.244	.246	.246		
K	0.490	0.510		.500	.500	.500	.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		.317	.317	.317	.317		
N	0.256	0.262		.260	.260	.260	.260		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		.500	.500	.500	.499		
V	0.793	0.803		.798	.798	.798	.798		
W	R.240	R.260		.250	.250	.250	.250		
X	0.040	0.060		.052	.052	.052	.051		
Y	0.100	0.120		.104	.104	.108	.110		
AA	R1.125	R1.145		1.132	1.132	1.131	1.133		
AB	R.490	R.510		.500	.500	.500	.500		
AC	0.615	0.635		.635	.635	.635	.635		
AD	0.240	0.260		.252	.253	.253	.252		
AE	1.810	1.830		1.819	1.820	1.820	1.821		
AF	0.240	0.260		.249	.250	.249	.252		
AG	0.140	0.160		.149	.150	.149	.151		
AH	0.140	0.160		.155	.156	.156	.155		
AI	0.140	0.160		.155	.156	.156	.155		
Accept/Reject									

Measured by:	<i>MP</i>
Date:	12/03/22

Audited by:	<i>JA</i>
Date:	12/3/22

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	
D	11.01.17	Note added to Dim I	KJ	<i>JA</i>

